WHAT IS CLAIMED IS:

1. A disc drive comprising:

a head suspension assembly supporting a head;

a transducer supported on the head suspension assembly to induce a transducer signal in response to head vibration; and

a detector receiving the transducer signal and outputting a level detected signal indicative of head vibration.

2. The disc drive of claim 1 wherein the level detected signal is indicative of head-disc contact.

3. The disc drive of claim 1 wherein the detector includes a frequency filter.

4. The disc drive of claim 3 wherein the frequency filter is configured to pass at least one of a bending mode or torsion mode frequency.

5. The disc drive of claim 1 wherein the transducer is a piezoelectric material.

6. The disc drive of claim 1 wherein the transducer is an electrostatic transducer.

7. The disc drive of claim 1 and further comprising:

a process controller coupled to the detector and configured to receive an outputted level detected signal and output a process command to reexecute the write command in drive memory.

8. The disc drive of claim 1 and further comprising:

a microactuator controller coupled to the transducer and configured to transmit a signal to the transducer to move the head.

9. The disc drive of claim 1 wherein the disc drive includes a plurality of head suspension assemblies and including a transducer coupled to each head suspension assembly.

10. The disc drive assembly of claim 1 wherein the transducer is configured to operate between a detection mode and a actuation mode, in the detection mode, the transducer detecting head vibration and in the actuation mode the transducer moving the head.

11. The disc drive assembly of claim 12 including:

a microactuator controller coupled to the transducer and configured to operate the transducer in the actuation mode.

12. A method for operating a disc drive comprising steps of:

(a) providing a transducer supported on a head suspension assembly configured to generate a transducer signal indicative of head vibration; and

(b) detecting the transducer signal and outputting a level detected signal indicative of head vibration.

13. The method of claim 12 wherein the transducer is a piezoelectric transducer.

14. The method of claim 12 and further comprising the step of:

(c) transmitting a signal to the transducer to move the head.

15. The method of claim 12 and further comprising steps of:

(c) transmitting a command to rewrite a write command in drive memory in response to a level detected signal indicative of head vibration.

16. The method of claim 12 and comprising the step of

(c) filtering the transducer signal for vibration frequencies of the head.

17. The method of claim 12 wherein the disc drive includes a plurality of head suspension assemblies and further comprising:

(c) detecting vibration for each of the plurality of head suspension assemblies.

18. The method of claim 12 including a microactuator controller coupled to the transducer and configured to transmit a signal to the transducer to move the head and comprising the step of:

(c) selectively operating the disc drive in a detection mode and an actuation mode, in the detection mode the transducer detecting head vibration and in the

actuation mode, the transducer moving the head.

~~19.~~ A disc drive assembly comprising:

~~a head suspension assembly supporting a head; and~~

~~means for detecting head vibration.~~

Sub A9

add A10

ADD C9

add D11